

ABSTRACT OF THE DISCLOSURE

A decoding power aware encoding method for generating a predictively encoded data stream, in which predictions, that result in a reduction in the amount of data transferred from the secondary memory to primary memory during the decoding process, are favored, said method for favoring certain predictions comprising: a model for transfer of data from secondary memory to primary memory in the decoding process; a scheme for weighting the relative merits of favoring a certain prediction and the associated loss in compression gain; and based on said weighting scheme, choosing a particular prediction from the candidates allowed by the compression scheme.